

1. WET WELL: SHALL BE A MINIMUM OF 12 FOOT INSIDE DIAMETER PRECAST CONCRETE MEETING "STANDARD SPECIFICATION FOR CIRCULAR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS", ASTM C-478 LATEST REVISION. JOINT SHALL BE SEALED WITH RAM-NEK FLEXIBLE SEALER CONFORMING TO FEDERAL SPECIFICATION SS-S-00210 IN AMOUNT SUFFICIENT TO SQUEEZE OUT PAST THE PLANE OF THE WALL. RUBBER-NEK JOINT SEALER SHALL BE USED ON EXTERNAL JOINTS. THE INTERIOR LINING SHALL BE AGRU SURE GRIP, ROYAL ANCHOR DURA PLATE 100 OR G.U. LINER OR APPROVED EQUAL. BOTTOM OF TOP SLAB SHALL BE INCLUDED. THE EXTERIOR SHALL BE PAINTED.
2. PUMP: SUBMERSIBLE NON-CLOG PUMP, INCLUDES SCH 40 316L STAINLESS STEEL SINGLE LENGTH GUIDE RAILS. PUMP SHALL BE EQUIPPED WITH SEAL FAILURE SENSORS, HEAT SENSORS, AND HARDENED IRON IMPELLER EMPLOYING A HIGH-STRENGTH HARDENED IRON ALLOY COMPOSED OF 25% CHROMIUM AND 3% CARBON. CONTRACTOR TO SET PUMPS AND ACCESS COVER TO ENSURE ACCURATE ALIGNMENT OF GUIDE RAILS AND TO ENSURE PUMP REMOVAL. ANCHOR PUMP DISCHARGE CONNECTION TO WELL FLOOR WITH APPROPRIATE EXPANSION SHIELDS.
3. CHECK VALVE: RUBBER FACED CLAPPER. FOR DISCHARGE PIPING SMALLER THAN 4 INCH THAT DISCHARGES TO GRAVITY, CONTRACTOR SHALL PROVIDE A VSI SERIES CVII AWWA C508 RUBBER FLAPPER INTERNAL CHECK VALVE.
4. PLUG VALVE: ECCENTRIC OPERATING, NON-LUBRICATED, ROUND PORT, BUNA N RESILIENT FACE SEATING SURFACE, CAST IRON BODY, LEVER ACTUATED WITH LEVER PROVIDED. VALVES SHALL BE EPOXY COATED INSIDE AND OUT WITH AMERCOAT 400, OR EQUAL. THE EPOXY COATING SHALL BE A MINIMUM OF 8 MILS INSIDE AND 4 MILS OUTSIDE. PLUG VALVES SHALL BE MILIKEN, KENNEDY OR APPROVED EQUAL.
5. WHEN DIRECTED BY SARASOTA COUNTY PUBLIC UTILITIES, A PLASTIC COMPOSITE/FIBERGLASS DROP BOWL AND PIPE (RELINER/DURAN, INC. OR EQUAL) SHALL BE INSTALLED DIRECTLY BETWEEN THE PUMPS WITH STAINLESS EXPANSION BOLTS AND ADJUSTABLE STAINLESS STEEL PIPE BRACKETS, AS SHOWN ON TRIPLEX DWG NO. 3, TO CONTROL THE DROP OF INFLUENT ENTERING THE WELL.
6. WET WELL TRIPLE ACCESS HATCH COVER: SEE TRIPLEX DWG NO. 12 FOR DETAILS. OPENING SIZE TO ACCOMMODATE PUMPS PROVIDING A MINIMUM OF 6 INCH CLEARANCE AROUND THE PUMP. FRAME SHALL SUPPORT GUIDE RAILS AND STAINLESS STEEL CABLE HOLDER. LOCKING HASPS SHALL BE FURNISHED FOR EACH COVER. ALL SURFACES IN CONTACT WITH CONCRETE SHALL HAVE A SHOP COAT OF ZINC CHROMATIC PRIMER, APPROVED ALKALI RESILIENT PAINT, OR OTHER APPROVED PROTECTIVE COATING.
7. ARV, ARI D-025, WITH BLOW-OFF HOSE TO ATMOSPHERE. ALL ARV'S TO HAVE 2 INCH INLETS, 1 INCH OUTLETS, AND 0.25 INCH ORIFICES. ALL ARV ASSEMBLIES TO HAVE THE FOLLOWING STAINLESS STEEL ITEMS: BALL VALVES, ROMAC 305 OR 306 FULL WRAP AROUND SADDLE (OR APPROVED EQUAL), BOLTS, AND FITTINGS. PIPE PENETRATIONS ARE TO BE FILED AND SANDED AS REQUIRED FOR SMOOTH FINISH AND EPOXY COATED.
8. LOW PROFILE VENT PIPE: FLANGED SCH 80 PVC WITH 316 STAINLESS STEEL FASTENERS AND 2 INCH 316 STAINLESS STEEL SPACERS. THE BOTTOM FLANGE SHALL INCORPORATE A 1/4 INCH MESH STAINLESS STEEL SCREEN BETWEEN THE BOTTOM FLANGE AND BOTTOM OF THE 2 INCH SPACERS FOR VENTILATION. THE VENT PIPE SHALL BE 6 INCH TO 12 INCH HIGH LINK-SEAL HYDROSTATIC PIPE WALL CLOSURE OR APPROVED EQUAL.
9. CONTRACTOR SHALL INSTALL A MINIMUM OF 10 GROUND RODS TOTAL - 5 GROUND RODS FOR THE ELECTRICAL BUILDING AND 5 GROUND RODS FOR THE WET WELL AND VALVE ASSEMBLY - AND CONNECT ALL GROUND RODS TOGETHER USING A MINIMUM #2/0 BARE STRANDED COPPER GROUND CONDUCTOR. THIS SHALL CREATE A GROUND RING SYSTEM AROUND THE EQUIPMENT TO PROVIDE A GROUND RESISTANCE NOT GREATER THAN 3 OHMS. GROUND RODS SHALL BE 3/4 INCH X 10 FEET MINIMUM COPPER CLAD STEEL AND DRIVEN FLUSH WITH GRADE. CONTRACTOR SHALL PROPERLY MEASURE GROUNDING RESISTANCE IN THE PRESENCE OF THE OWNER OR THE OWNER'S REPRESENTATIVE. THE GROUND RODS SHALL NOT BE DRIVEN INTO THE GROUND UNTIL ACCEPTED IN WRITING BY A SARASOTA COUNTY PUBLIC UTILITIES' REPRESENTATIVE. THE GROUND WIRE SHALL BE ATTACHED TO THE GROUND RODS BY EXOTHERMIC WELD. THE GROUND RODS SHALL BE LOCATED 12 INCHES OFF THE CORNERS OF THE STRUCTURES AND THE FIFTH GROUND ROD FOR THE ELECTRICAL BUILDING SHALL BE LOCATED 12 INCHES FROM THE CONTROL PANEL SUPPORT POST. ALL APPROPRIATE FACILITIES SHALL BE GROUNDED INCLUDING BUT NOT LIMITED TO: CONTROL PANEL, ELECTRICAL SERVICE, ELECTRICAL METER CANS, TERMINAL JUNCTION BOXES, SAFETY SWITCHES, SUPPORT RACKS, WET WELL CABLE RACKS, WET WELL LIDS, BARE METAL FENCES, AND VALVE VAULT LIDS.
10. A 4-INCH 316 SST OIL FILLED PRESSURE GAUGE AND A SEPARATE PRESSURE TRANSMITTER SHALL SHARE A COMMON LINE TAP IN A PRESSURE TREE ARRANGEMENT. EACH PRESSURE INSTRUMENT SHALL HAVE ITS OWN SST ISOLATION BALL VALVE AND DIAPHRAGM SEAL. THE SINGLE LINE TAP SHALL BE LOCATED OFF OF A FULL WRAP SST SADDLE ALONG THE DISCHARGE PIPE BELOW THE ARV. THE PRESSURE GAUGE DISPLAY RANGE AND TRANSMITTER CALIBRATED RANGE SHALL BE APPROVED BY SARASOTA COUNTY PUBLIC UTILITIES WITH ADEQUATE RANGE READINGS SUITABLE FOR ANTICIPATED PUMP STATION OPERATING PRESSURES. A MAXIMUM OPERATING RANGE OF 0-100 PSI SHALL BE PROVIDED.

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SUPPLEMENTARY NOTES FOR
TRIPLEX DWG NOS. 2-5

TRIPLEX DWG NO. 6